

Appendix C

G191 (G190) Mutation in the vicinity of Co-factor and substrate/inhibitor region.



Legend: Ribbon structure of the *E. coli* FabI protein. G190 (corresponding residue G191 in *S. aureus*) is highlighted in green, NAD⁺ is colored yellow and the inhibitor is teal. G190 forms part of the active site of FabI, defining the complementary surface for the substrates. Mutations in this area could affect the shape of the binding pocket and ultimately, substrate binding.